Application No.: 10/589,769 Docket No.: TEVGAL 3.3-020

## AMENDMENTS TO THE CLAIMS

- 1. (Canceled).
- 2. (Currently Amended) The process of Claim 1 A process of isolating an ergot alkaloid from ergot, the process comprising extraction of ergot with a mixture comprising toluene and ethanol to form a primary extract, wherein the concentration of ethanol in the mixture, comprises: toluene and is about 5-30% (v/v)—of ethanol.
- 3. (Currently Amended) The process of Claim 2, wherein the concentration of ethanol in the mixture, comprises: toluene and is about 10-20% (v/v)—of ethanol.
- 4. (Currently Amended) The process of Claim 2, wherein the extracting extraction is performed at a temperature of about 20-50°C.
- 5. (Currently Amended) The process of Claim 4, wherein the extracting extraction is performed at a about ambient temperature.
- 6. (Currently Amended) The process of Claim 2, wherein the extracting extraction is performed in a counter current way on a battery of percolators or on a continuous extractor.
- 7. (Currently Amended) The process of Claim 2, further comprising: extracting extraction of the primary extract with an aqueous solution of an acid to transfer the ergot alkaloid from the primary extract to an aqueous extract.

- 8. (Original) The process of Claim 7, wherein the aqueous solution of an acid is an aqueous solution of hydrochloric acid.
- 9. (Currently Amended) The process of Claim 8, wherein the aqueous solution of hydrochloric acid, comprises: about 30-60% (v/v) water, about 70-40% (v/v) ethanol, and about 0.05-1.0% (w/w) HCl.
- 10. (Currently Amended) The process of Claim 9, wherein the aqueous solution of hydrochloric acid, comprises: about 40-50% (v/v) water, about 60-50% (v/v) ethanol, and about 0.1-0.3% (w/w) HC1.
- 11. (Original) The process of Claim 8, further comprising: increasing the pH of the aqueous extract to above 7.0.
- 12. (Currently Amended) The process of Claim 11, wherein the increasing is performed by the addition of an aqueous sodium hydroxide solution—(w/w).
- 13. (Original) The process of Claim 12, wherein the increasing is performed by the addition of a 5% aqueous sodium hydroxide solution (w/w).
- 14. (Currently Amended) The process of claim 11, further comprising: extracting extraction of the aqueous extract having a pH above 7.0 with toluene to transfer the ergot alkaloid from the aqueous solution and obtain a purified toluene extract.

- 15. (Currently Amended) The process of claim 14, further comprising: partially evaporating partial extraction of the solvent from the purified toluene extract to form crystalline ergot alkaloid.
- 16. (Original) The process of Claim 15, further comprising: separating the crystalline ergot alkaloid from the remaining toluene.
- 17. (Currently Amended) The process of Claim 15, further comprising: adding one or more  $C_5$ - $C_8$  aliphatic hydrocarbons to the concentrate after product obtained by partial evaporation of toluene to aid in crystallizing the ergot alkaloid.
- 18. (Original) The process of Claim 17, wherein the one or more aliphatic  $C_5\!-\!C_8$  hydrocarbons are selected from hexane and heptane.
- 19. (Original) The process of Claim 18, wherein the one or more aliphatic  $C_5\text{-}C_8$  hydrocarbons is hexane.
- 20. (Original) The process of Claim 17, further comprising: separating the crystalline ergot alkaloid from the toluene/aliphatic hydrocarbon mixture.
- 21. (Currently Amended) The process of Claim 20, comprising isolating wherein the purity of crystalline ergot alkaloid in is greater than 90% purity.

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22. (Currently Amended) A process of isolating an ergot alkaloid from ergot, the process comprising:

- a. extracting extraction of ergot with a mixture, comprising: toluene and ethanol to form a primary extract, wherein the concentration of ethanol in the mixture, comprises: toluene and is about 5-30% (v/v) of ethanol;
- b. extracting extraction of the primary extract with an aqueous solution of an acid to transfer the ergot alkaloid from the primary extract to an aqueous extract;
  - c. increasing the pH of the aqueous extract to above 7.0;
- d. extracting extraction of the aqueous extract having a pH above 7.0 with toluene to transfer the ergot alkaloid from the aqueous solution and obtain a purified toluene extract;
- e. partially evaporating the solvent from the purified toluene extract to form crystalline ergot alkaloid; and,
- f. separating the crystalline ergot alkaloid from the remaining toluene.
- 23. (Currently Amended) A process of isolating an ergot alkaloid from ergot, the process comprising:
- a. extracting extraction of ergot with a mixture, comprising: toluene and ethanol to form a primary extract, wherein the concentration of ethanol in the mixture, comprises: toluene and is about 5-30% (v/v) of ethanol;

- b. extracting extraction of the primary extract with an aqueous solution of an acid to transfer the ergot alkaloid from the primary extract to an aqueous extract;
  - c. increasing the pH of the aqueous extract to above 7.0;
- d. extractingextraction of the aqueous extract having a pH above 7.0 with toluene to transfer the ergot alkaloid from the aqueous solution and obtain a purified toluene extract;
- e. partially evaporating the solvent from the purified toluene extract to form crystalline ergot alkaloid;
- f. adding one or more  $C_5$ - $C_8$  aliphatic hydrocarbons to the concentrate after product obtained by partial evaporation of toluene to aid in crystallizing the ergot alkaloid; and,
- g. separating the crystalline ergot alkaloid from the toluene/aliphatic hydrocarbon mixture.